



4, 7TH MAIN MALLESWARAM, BANGALORE -3



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-05-08-01 Date: 12-05-17

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/47/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-05-17

Sample ID No : 2017-05-08-01-02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.50	100.43	1.582	4476	82.9	18.5	17.2	21.5
2	Cover Slab-2	75.47	100.48	1.578	4473	84.3	18.8	17.5	21.9
3	Cover Slab-3	75.49	100.50	1.615	4475	83.5	18.7	17.4	21.7

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
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Prepared by
Harshitha



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

AE-13
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ, ಉಪವಿಭಾಗ, ದಾಖಲೆ ಮತ್ತು
ಬೃಹತ್ ಮಂತ್ರಾಲಯ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಎಂ. ರಸ್ತೆ, ಶಿವನಗರ, ಬೆಂಗಳೂರು

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T-4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-05-05 Date: 02-06-2017
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WO/47/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-17
Sample ID No : 2017-05-05-05-01
Sample Type : ACC 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 08-05-17

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.0N/mm ²	Not less than 53 N/mm ²

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Harshitha

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R. Karthik Rechan

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

AE-13
ಇದರಲ್ಲಿ ಕಂಡುಬಂದಿರುವ
ಪ್ರತಿಬಿಂಬಣೆಗಳು, ಮೂಲದಿಂದ
ಬಿಡುಗಡೆ ಮಾಡುವುದು ಮತ್ತು
ವಿತರಿಸುವುದು, ಅನುಮತಿಸಲಾಗುವುದಿಲ್ಲ.

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-05-05 Date: 09-05-2017
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WO/47/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-05-17
Sample ID No : 2017-05-05-05-01
Sample Type : ACC 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 08-05-17

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	—
2	Fineness by Air permeability method (m ² /kg, Min)	275	225m ² /kg, Min
3	Density (gm/cc)	3.21	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

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Harshitha



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Quality Manager

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****End of Report****

AG-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ, ಬೆಂಗಳೂರು
ಮಹಾನಗರ ಪಾಲಿಕೆ
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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-05-05 Date: 10-05-2017
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference : BBMP/EE/DD/WO/47/2017-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-05-17
Sample ID No : 2017-05-05-05-02(b)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	290	290	1.9	98.1	90-100
3	20 mm	5344	5634	37.6	62.4	30-70
4	10 mm	4556	10190	67.9	32.1	10-35
5	4.75 mm	4460	14650	97.7	2.3	0-5
6	Pan	350	15000	100.0	0	---

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Sig.....
Date.....

KE-13

ಸಹಾಯಕ ನಿರ್ದೇಶಕರು
ಶಿಕ್ಷಣ, ಸಂಶೋಧನೆ ಮತ್ತು
ವಿಜ್ಞಾನ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಾ.ಎಂ. ರಸ್ತೆ, ಬೆಂಗಳೂರು

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Certificate No.: T-4358

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-05-05
Sample ID No : 2017-05-05-05-02(b)

Date: 10-05-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.46	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—

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AE-13
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ಸರ್ವಯಕ್ತ ಕಾರ್ಯದರ್ಶಿ ಉಪನಿರ್ದೇಶಕರು
ಪಟ್ಟಣ್ಣ ರಸ್ತೆಬದ್ಧ, ಬಾಹ್ಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ
ಪಂಚಾಯತ್, ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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